

Checklist of the Cecidomyiidae (Diptera) of Finland

Mathias Jaschhof¹, Marcela Skuhrová², Jouni Penttinen³

1 Thälmann-Ring 64, D-17491 Greifswald, Germany **2** Bitovská 1227/9, 140 00 Praha 4, Czech Republic
3 Metsähallitus, Natural Heritage, P.O. Box 36, FIN-40101 Jyväskylä, Finland

Corresponding author: Mathias Jaschhof (mjaschhof@yahoo.de)

Academic editor: J. Kahanpää | Received 13 March 2014 | Accepted 3 April 2014 | Published 19 September 2014

<http://zoobank.org/DE94E3A3-65AD-4CB9-A6AB-33BB1980CDC3>

Citation: Jaschhof M, Skuhrová M, Penttinen J (2014) Checklist of the Cecidomyiidae (Diptera) of Finland. In: Kahanpää J, Salmela J (Eds) Checklist of the Diptera of Finland. ZooKeys 441: 103–118. doi: 10.3897/zookeys.441.7503

Abstract

A list of the 356 species of Cecidomyiidae (Diptera) recorded from Finland is presented, which comprises 6 Lestremiinae, 156 Micromyinae, 16 Winnertziinae, 69 Porricondyliinae, and 109 Cecidomyiinae. The faunistic knowledge of Finnish Winnertziinae, Porricondyliinae and Cecidomyiinae is regarded as particularly poor. Based on species numbers known from other countries in Europe, a conservative estimate is 700–800 species of Cecidomyiidae actually occurring in Finland.

Keywords

Gall midges, Finland, species list

Introduction

With a world total of more than 6200 species described, Cecidomyiidae are among the largest families of Diptera, although adult cecidomyiids are mostly delicate midges with body lengths of less than 5 mm. The family has been catalogued (Gagné and Jaschhof 2014) and that publication provides bibliographic and other information on all known species. Six subfamilies are recognised: the fungivorous Catotrichinae, Lestremiinae, Micromyinae, Winnertziinae and Porricondyliinae, and the mostly herbivorous Cecidomyiinae. The latter subfamily, which also includes fungivores and predators, comprises the largest gall-making group of insects (hence the family name that translates as gall midges).

In the fungivorous subfamilies, many larvae are associated with dead wood, rendering those a biodiverse, albeit little studied group of saproxylic insects. In Cecidomyiinae, larvae associated with living flowering plants are usually restricted to development on one, or a few closely-related host species; predators are also generally assumed to be highly host-specific, as far as is known.

The Palaearctic has more named Cecidomyiidae species than any other zoogeographical region, and the best known gall midge fauna is that of Europe, with more than 1800 species (Skuhrová 2006). Even so, European Cecidomyiidae are far from being completely known, and the Finnish fauna provides a good example. To illustrate, while the previous checklist of Finnish Cecidomyiidae (Hackman 1980) comprised only four species of Lestremiinae and Micromyinae, a recent taxonomic study increased that number to 162, including 34 new species (Jaschhof and Jaschhof 2009). As for Winnertziinae and Porricondyliinae, 27 species in Hackman's (1980) list compare with 69 species recorded here (Penttinen and Siitonen 2005, Penttinen and Spungis 2007, Penttinen and Jaschhof 2009; Jaschhof, unpublished; Penttinen, unpublished), yet much remains to be discovered, as is testified by specimens in the Penttinen Collection belonging to a number of unnamed species. In Cecidomyiinae, only three species (Hulden 2003; Skuhrová, unpublished) are here added to the Hackman list, a meager increase that is obviously explained by the slight research effort in recent years.

Identification of cecidomyiids, both larvae and adults, is generally difficult and usually left to a few taxonomic specialists of the family. An adult key to the Palaearctic genera of Cecidomyiidae was provided by Skuhrová (1997); to the Holarctic genera of Lestremiinae and Micromyinae by Jaschhof and Jaschhof (2009), and to the Holarctic genera of Winnertziinae and Porricondyliinae by Jaschhof and Jaschhof (2013). Adult keys and illustrations by Jaschhof and Jaschhof (2009, 2013) can be used to identify the Finnish species of the fungivorous subfamilies. Adult keys to identify species of Cecidomyiinae in Finland are only available for a few small groups, so any attempts in this regard rely largely on descriptions and illustrations scattered in an extensive literature. In general, many Cecidomyiinae species cannot be identified unless a bundle of information (regarding host, gall, immature stages, adults of both sexes) are known. Illustrated keys to galls, including those caused by gall midges, have been published for Central and Northern Europe by Buhr (1964, 1965), a resource that is currently being revised and updated for publication in English in 2015 (see <http://www.pflanzengallen.de>).

The arrangement of taxa in this list largely follows the recent edition of the world catalogue (Gagné and Jaschhof 2014) except that genera are here arranged under their pertinent tribes and supertribes, if known. All Finnish records of species of the fungivorous subfamilies were revised in recent years (Jaschhof and Jaschhof 2009, 2013; Penttinen, unpublished), so can be related to actual voucher specimens deposited in museum collections. The list of Cecidomyiinae, which is not updated to the same extent, is compiled from published locality records based on varying evidence, including galls alone.

Number of species:

World: 6203 species (Gagné and Jaschhof 2014)

Europe: 1800 species (Skuhrová 2006)

Finland: 356 species (this paper)

Faunistic knowledge level in Finland: poor

Checklist

Nematocera Dumeril, 1805

infraorder Bibionomorpha Hennig, 1954

superfamily Sciaroidea Billberg, 1820

CECIDOMYIIDAE Newman, 1834

LESTREMIINAE Rondani, 1840

tribe Lestremiini Rondani, 1840

ALLARETE Pritchard, 1951

Allarete nigra Mamaev, 1994

ANARETE Haliday, 1833

Anarete sp. 2 [see Note below]

ANARETELLA Enderlein, 1911

Anaretella defecta (Winnertz, 1870)

= *magnicornis* Mamaev, 1964

Anaretella iola Pritchard, 1951

LESTREMIA Macquart, 1826

Lestremia cinerea Macquart, 1826

Lestremia leucophaea (Meigen, 1818)

MICROMYINAE Rondani, 1856

tribe Acoenoniini Pritchard, 1960

ACOENONIA Pritchard, 1947

Acoenonia europaea Mamaev, 1964

tribe Aprionini Jaschhof, 1998

APRIONUS Kieffer, 1894

Aprionus accipitris Jaschhof, 1997

Aprionus acutus Edwards, 1938

Aprionus adventitius Jaschhof, 2009

Aprionus aquilonius Jaschhof, 2009

Aprionus arcticus Mamaev, 2001

Aprionus aviarius Mamaev & Berest, 1990

Aprionus betulae Jaschhof, 1996

Aprionus bidentatus (Kieffer, 1894)

Aprionus bifidus Mamaev, 1963

Aprionus bispinosus Edwards, 1938

- Aprionus brachypterus* Edwards, 1938
Aprionus brevitegminis Jaschhof, 2009
Aprionus cardiophorus Mamaev, 1963
Aprionus carinatus Jaschhof, 1996
Aprionus complicatus Mamaev & Berest, 1986
Aprionus confusus Mamaev, 1969
Aprionus corniculatus Mamaev, 1963
Aprionus cornutus Berest, 1986
Aprionus dalarnensis Mamaev, 1998
Aprionus dentifer Mamaev, 1965
Aprionus dispar Mamaev, 1963
Aprionus dissectus Mamaev & Berest, 1990
Aprionus duplicatus Mamaev, 1998
Aprionus ensiferus Jaschhof, 1996
Aprionus fennicus Jaschhof, 2009
Aprionus flavidus (Winnertz, 1870)
Aprionus foliosus Jaschhof, 2009
Aprionus gladiator Jaschhof, 2009
Aprionus halteratus (Zetterstedt, 1852)
Aprionus heothinos Jaschhof, 2009
Aprionus hintelmannorum Jaschhof, 2009
Aprionus inquisitor Mamaev, 1963
Aprionus insignis Mamaev, 1963
Aprionus laevis Mohrig, 1967
Aprionus lapponicus Jaschhof & Mamaev, 1997
Aprionus laricis Mamaev & Jaschhof, 1997
Aprionus latitegminis Jaschhof, 2009
Aprionus longicollis Mamaev, 1963
Aprionus longitegminis Yukawa, 1967
Aprionus marginatus Mamaev, 1963
Aprionus miki Kieffer, 1895
Aprionus oligodactylus Jaschhof, 2009
Aprionus piceae Jaschhof, 1997
Aprionus praecipuus Jaschhof, 2009
Aprionus pyxidiifer Mamaev, 1998
Aprionus reduncus Jaschhof, 2009
Aprionus separatus Mamaev & Jaschhof, 1997
Aprionus sievertorum Jaschhof, 2009
Aprionus similis Mamaev, 1963
Aprionus spiniferus Mamaev & Berest, 1990
Aprionus spiniger (Kieffer, 1894)
Aprionus stiktos Jaschhof, 2009
Aprionus stylifer Mamaev, 1998

Aprionus styloideus Mamaev & Berest, 1990

Aprionus subacutus Jaschhof, 1997

Aprionus svecicus Jaschhof, 1996

Aprionus taigaensis Jaschhof, 2009

Aprionus tiliamcorticis Mamaev, 1963

Aprionus victoriae Jaschhof, 2009

tribe Bryomyiini Berest, 1993

BRYOMYIA Kieffer, 1895

= *Tomonomyia* Berest, 1993

Bryomyia apsectra Edwards, 1938

Bryomyia bergrothi Kieffer, 1895

Bryomyia gibbosa (Felt, 1907)

Bryomyia producta (Felt, 1908)

HETEROGENELLA Mamaev, 1963

= *Cervuatina* Berest, 1993

Heterogenella finitima Mamaev, 1998

Heterogenella hybrida Mamaev, 1963

Heterogenella linearis Yukawa, 1971

SKUHRAVIANA Mamaev, 1963

Skuhraviana triangulifera Mamaev, 1963

tribe Campylomyzini Kieffer, 1898

CAMPYLOMYZA Meigen, 1818

Campylomyza abbreviata Jaschhof, 2009

Campylomyza aemula Mamaev, 1998

Campylomyza alpina Siebke, 1863

Campylomyza arcuata Jaschhof, 2009

Campylomyza armata Mamaev, 1963

Campylomyza cavitata Mamaev, 1998

Campylomyza cingulata Jaschhof, 2009

Campylomyza dilatata Felt, 1907

Campylomyza falcifera Jaschhof, 2009

Campylomyza flavipes Meigen, 1818

= *pallipes* Zetterstedt, 1850

Campylomyza furva Edwards, 1938

Campylomyza fusca Winnertz, 1870

Campylomyza inornata Jaschhof, 2009

Campylomyza insolita Jaschhof, 2009

Campylomyza ormerodi (Kieffer, 1913)

Campylomyza serrata Jaschhof, 1998

Campylomyza spatulata Mamaev, 1998

Campylomyza stegetfore Jaschhof, 2009

EXCRESCENTIA Mamaev & Berest, 1991

Excrescentia mutuata Mamaev & Berest, 1991

NEUROLYGA Rondani, 1840

= *Cordylomyia* Felt, 1911

Neurolyga acuminata Jaschhof, 2009

Neurolyga bilobata (Mamaev & Rozhnova, 1982)

Neurolyga excavata (Yukawa, 1967)

Neurolyga interrupta Jaschhof, 2009

Neurolyga lonsdalensis Jaschhof, 2009

Neurolyga paludosa Jaschhof, 2009

Neurolyga sylvestris (Felt, 1907)

Neurolyga verna (Mamaev, 1963)

tribe Catochini Edwards, 1938

CATOA Haliday, 1833

Catocha incisa Jaschhof, 2009

Catocha latipes Haliday, 1833

tribe Micromyini Rondani, 1856

MICROMYA Rondani, 1840

Micromya lucorum Rondani, 1840

MONARDIA Kieffer, 1895

= *Pezomyia* Kieffer, 1913

sg. *Monardia* Kieffer, 1895

Monardia abnormis Mamaev, 1963

Monardia armata Jaschhof, 2003

Monardia lignivora (Felt, 1907)

Monardia obsoleta Edwards, 1938

Monardia pediculata (Mamaev, 1993)

Monardia stirpium Kieffer, 1895

Monardia yasumatsui Yukawa, 1967

sg. *Trichopteromyia* Williston, 1896

Monardia magnifica Mamaev, 1963

Monardia relictata Jaschhof, 2009

sg. *Xylopriona* Kieffer, 1913

Monardia adentis Jaschhof, 1998

Monardia atra (Meigen, 1804)

Monardia monotheca Edwards, 1938

Monardia radiella Mamaev, 1993

Monardia toxicodendri (Felt, 1907)

Monardia unguifera Berest & Mamaev, 1997

POLYARDIS Pritchard, 1947

Polyardis adela Pritchard, 1947

Polyardis bispinosa (Mamaev, 1963)

Polyardis silvalis (Rondani, 1840)

tribe Peromyiini Kleesattel, 1979

PEROMYIA Kieffer, 1894

Peromyia abdita Jaschhof, 2009
Peromyia abnormis Mamaev & Berest, 1990
Peromyia albicornis (Meigen, 1830)
Peromyia anatina Mamaev & Berest, 1990
Peromyia angellifera Jaschhof, 1997
Peromyia anisotoma Mamaev, 1994
Peromyia apposita Jaschhof, 1997
Peromyia bicolor (Edwards, 1938)
Peromyia bidentata Berest, 1998
Peromyia boreophila Jaschhof, 2001
Peromyia caricis (Kieffer, 1901)
Peromyia concitata Mamaev & Berest, 1994
Peromyia cornuta (Edwards, 1938)
Peromyia curta Jaschhof, 1997
Peromyia diadema Mamaev, 1963
Peromyia edwardsi Berest, 1994
Peromyia fagiphila Jaschhof, 1997
Peromyia fungicola (Kieffer, 1901)
Peromyia intermedia (Kieffer, 1895)
Peromyia mitrata Jaschhof, 1997
Peromyia modesta (Felt, 1907)
Peromyia monilis Mamaev, 1965
Peromyia muscorum (Kieffer, 1895)
Peromyia ovalis (Edwards, 1938)
Peromyia palustris (Kieffer, 1895)
Peromyia perpusilla (Winnertz, 1870)
Peromyia photophila (Felt, 1907)
Peromyia pumila Jaschhof, 2001
Peromyia ramosa (Edwards, 1938)
Peromyia ramosoides Jaschhof, 2009
Peromyia sanguinea (Kieffer, 1894)
Peromyia scirrhosa Jaschhof, 2009
Peromyia scutellata Mamaev, 1990
Peromyia semotoides Jaschhof, 2009
Peromyia subbicolor Jaschhof, 2009
Peromyia subborealis Jaschhof, 1997
Peromyia syltefjordensis Jaschhof, 1996
Peromyia truncata Yukawa, 1967
Peromyia tundrae Jaschhof, 1996
Peromyia upupoides Jaschhof, 1997
WINNERTZIINAE Panelius, 1965
tribe Diallactiini Jaschhof, 2013
DIALLACTIA Gagné, 2004

= *Diallactes* Kieffer, 1894 preocc.

Diallactia crocea (Kieffer, 1894)

= *obscuripes* (Spungis, 1985)

SYLVENOMYIA Mamaev & Zaitzev, 1998

Sylvenomyia fennica Penttinen & Jaschhof, 2009

Sylvenomyia spinigera (Spungis, 1985)

tribe Heteropezini Schiner, 1868

HETEROPEZA Winnertz, 1846

Heteropeza pygmaea Winnertz, 1846

LEPTOSYNA Kieffer, 1894

Leptosyna similis Jaschhof, 2013

MIASTOR Meinert, 1864

Miastor metraloas Meinert, 1864

tribe Winnertziini Panelius, 1965

KRONOMYIA Felt, 1911

Kronomyia ovalis (Mamaev, 1964)

RHIPIDOXYLOMYIA Mamaev, 1964

Rhipidoxylomyia brevicornis Mamaev, 1964

WINNERTZIA Rondani, 1860

Winnertzia bulbifera Mamaev, 1963

Winnertzia curvata Panelius, 1965

Winnertzia fusca Kieffer, 1901

Winnertzia globifera Mamaev, 1963

Winnertzia graduata Spungis, 1992

Winnertzia nigripennis Kieffer, 1896

Winnertzia rotundata Spungis, 1992

Winnertzia solidaginis Felt, 1907

= *calciequina* Felt, 1907

PORRICONDYLINEAE Kieffer, 1913

tribe Asynaptini Rübsaamen & Hedicke, 1926

ASYNAPTA Loew, 1850

Asynapta breviata Spungis, 1988

Asynapta inflata Spungis, 1988

Asynapta magdalini Panelius, 1965

Asynapta pectoralis (Winnertz, 1853)

Asynapta rufomaculata Panelius, 1965

Asynapta saliciperda Felt, 1908

= *populnea* Panelius, 1965

Asynapta strobi (Kieffer, 1920)

CAMPTOMYIA Kieffer, 1894

Camptomyia abnormis Mamaev, 1961

Camptomyia calcarata Mamaev, 1964

Camptomyia corticalis (Loew, 1851)

- Camptomyia flavocinerea* Panelius, 1965
Camptomyia gigantea Spungis, 1989
Camptomyia pinicola Mamaev, 1961
Camptomyia piptopori Panelius, 1965
Camptomyia regia Spungis, 1989
Camptomyia salicicola Mamaev, 1961
 = *populicola* Mamaev, 1961
Camptomyia spinifera Mamaev, 1961
COLOMYIA Kieffer, 1892
Colomyia clavata Kieffer, 1892
PARASYNAPTA Panelius, 1965
Parasynapta intermedia Panelius, 1965
 tribe Dicerurini Mamaev, 1966
 = Solntseviini Mamaev, 1966
DICERURA Kieffer, 1898
Dicerura furculata Mamaev, 1968
Dicerura mixta Spungis, 1987
Dicerura rossica (Mamaev, 1960)
Dicerura triangularis Mamaev, 1966
Dicerura unidentata Spungis, 1987
DIRHIZA Loew, 1850
Dirhiza lateritia Loew, 1850
HILVERSIDIA Mamaev, 1966
Hilversidia autumnalis Mamaev, 1966
PARATETRANEUROMYIA Spungis, 1987
Paratetraneuromyia vernalis Spungis, 1987
SOLNTSEVIA Mamaev, 1965
Solntsevia nigripes Mamaev, 1965
TETRANEUROMYIA Mamaev, 1964
Tetraneuromyia lenticularis (Spungis, 1987)
 tribe Porricondylini Kieffer, 1913
 = Holoneurini Enderlein, 1936
ARCTEPIDOSIS Mamaev, 1990
Arctepidosis paneliusi Mamaev & Zaitzev, 1998
CASSIDOIDES Mamaev, 1960
Cassidoides fulvus (Kieffer, 1896)
 = *pini* Mamaev, 1960
CLASPETTOMYIA Grover, 1964
 = *Pachylabis* Panelius, 1965
Claspettomyia hamata (Felt, 1907)
Claspettomyia niveitarsis (Zetterstedt, 1850)
Claspettomyia rossica Mamaev, 1998
Claspettomyia ussuriensis Mamaev, 1998

COCCOPSILIS Harris, 2004

= *Coccopsis* Meijere preocc.

Coccopsilis marginata (Meijere, 1901)

Coccopsilis obscura (Mamaev, 1964)

Coccopsilis paneliusi (Yukawa, 1971)

DENDREPIDOSIS Mamaev, 1990

Dendrepidosis longipennis (Spungis, 1981)

DIVELLEPIDOSIS Fedotova & Sidorenko, 2007

Divellepidosis armilla (Mamaev, 1994)

Divellepidosis fuscostriata (Panelius, 1965)

Divellepidosis hypoxantha (Panelius, 1965)

Divellepidosis lutescens (Spungis, 1981)

Divellepidosis pallescens (Panelius, 1965)

Divellepidosis taigacola Jaschhof, 2013

JAMALEPIDOSIS Mamaev, 1990

Jamalepidosis spungisi Jaschhof, 2013

MONEPIDOSIS Mamaev, 1966

Monepidosis furcata Mamaev, 1966

Monepidosis pectinata Mamaev, 1966

PANELIUSIA Jaschhof, 2013

Paneliusia albimanoides Jaschhof, 2013

Paneliusia aurantiaca (Panelius, 1965)

= *modesta* (Spungis, 1981)

PAREPIDOSIS Kieffer, 1913

Parepidosis arcuata Mamaev, 1964

= *longinodis* Panelius, 1965

Parepidosis venustior Gagné, 2004

PAURODYLA Jaschhof, 2013

Paurodyla tyresta Jaschhof, 2013

PORRICONDYLA Rondani, 1840

Porricondyla fulvescens Panelius, 1965

Porricondyla neglecta Mamaev in Mamaev & Krivosheina, 1965

Porricondyla nigripennis (Meigen, 1830)

Porricondyla rufescens Panelius, 1965

PSEUDEPIDOSIS Mamaev, 1966

Pseudepidosis trifida Mamaev, 1966

ROSTELLATYLA Jaschhof, 2013

Rostellatyla rostellata (Panelius, 1965)

ROSTRATYLA Jaschhof, 2013

Rostratyla globosa (Spungis, 1981)

SCHISTONEURUS Mamaev, 1964

Schistoneurus impressus Mamaev, 1964

Schistoneurus irregularis Mamaev, 1964

SERRATYLA Jaschhof, 2013*Serratyla furcata* (Mamaev, 2001)*Serratyla pubescens* (Walker, 1856)*Serratyla spinosa* Jaschhof, 2013**SPUNGISOMYIA** Mamaev & Zaitzev, 1996*Spungisomyia media* (Spungis, 1981)**ZAITZEVIOLA** Fedotova & Sidorenko, 2007*Zaitzeviola latistylata* Jaschhof, 2013*Zaitzeviola pilosistylata* Jaschhof, 2013*Zaitzeviola rufocinerea* (Panelius, 1965)**CECIDOMYIINAE** Newman, 1834

supertribe Cecidomyiidi Rübsaamen & Hedicke, 1925

tribe Aphidoletini Harris, 1966

APHIDOLETES Kieffer, 1904*Aphidoletes aphidimyza* (Rondani, 1847)*Aphidoletes urticae* (Kieffer, 1895)**MONOBREMIA** Kieffer, 1912*Monobremia subterranea* (Kieffer, 1898)

tribe Asphondyliini Rübsaamen & Hedicke, 1925

ASPHONDYLIA Loew, 1850*Asphondylia serpylli* Kieffer, 1898= *thymi* Kieffer, 1898**KIEFFERIA** Mik, 1895*Kiefferia pericarpiicola* (Bremi, 1847)**SCHIZOMYIA** Kieffer, 1889*Schizomyia galiorum* Kieffer, 1889

tribe Cecidomyiini Rübsaamen & Hedicke, 1925

ANISOSTEPHUS Rübsaamen, 1917*Anisostephus betulinus* (Kieffer, 1889)**CECIDOMYIA** Meigen, 1803*Cecidomyia pini* (De Geer, 1776)**CONTARINIA** Rondani, 1860*Contarinia coryli* (Kaltenbach, 1859)*Contarinia craccae* Loew, 1850*Contarinia gei* Kieffer, 1909= *geicola* Rübsaamen, 1917*Contarinia kanervoi* Barnes, 1958*Contarinia lonicerearum* (F. Löw, 1877)*Contarinia loti* (De Geer, 1776)*Contarinia merceri* Barnes, 1930*Contarinia petioli* (Kieffer, 1898)*Contarinia pisi* (Loew, 1850)*Contarinia quercina* (Rübsaamen, 1890)

- Contarinia sambuci* (Kaltenbach, 1873)
= *lonicerearum* (F. Löw, 1874)
Contarinia tiliarum (Kieffer, 1890)
Contarinia tritici (Kirby, 1798)
Contarinia vincetoxici Kieffer, 1909
MACRODIPLOSIS Kieffer, 1895
Macrodiplosis pustularis (Bremi, 1847)
= *dryobia* (Löw, 1877)
Macrodiplosis roboris (Hardy, 1854)
= *volvans* Kieffer, 1895
PLEMELIELLA Seitner, 1908
Plemeliella abietina Seitner, 1908
STENODIPLOSIS Reuter, 1895
Stenodiplosis geniculati Reuter, 1895
THECODIPLOSIS Kieffer, 1895
Thecodiplosis brachyntera (Schwägrichen, 1835)
tribe Clinodiplosini Enderlein, 1936
AMETRODIPLOSIS Rübsaamen, 1910
Ametrodiplosis thalicticola (Rübsaamen, 1895)
CLINODIPLOSIS Kieffer, 1894
Clinodiplosis cilicrus (Kieffer, 1889)
SITODIPLOSIS Kieffer, 1913
Sitodiplosis mosellana (Géhin, 1857)
tribe Hormomyiini Rübsaamen & Hedicke, 1925
PLANETELLA Westwood, 1840
Planetella ?grandis (Meigen, 1804)
tribe Lestodiplosini Harris, 1966
LESTODIPLOSIS Kieffer, 1894
Lestodiplosis pallidicornis Kieffer, 1898
unplaced Cecidomyiidi
HARMANDIOLA Skuhrová, 1997
= *Harmandia* Kieffer, 1896 preocc.
Harmandiola globuli (Rübsaamen, 1889)
Harmandiola tremulae (Winnertz, 1853)
= *loewi* (Rübsaamen, 1917)
HYGRODIPLOSIS Kieffer, 1912
Hygrodiplosis vaccinii (Kieffer, 1897)
MASSALONGIA Kieffer, 1897
Massalongia rubra (Kieffer, 1890)
RESSELIELLA Seitner, 1906
= *Thomasiniana* Strand, 1927
Resseliella ribis (Marikovskij, 1956)
Resseliella theobaldi (Barnes, 1927)

XYLODIPLOSIS Kieffer, 1894*Xylodiplosis nigratarsis* (Zetterstedt, 1850)

supertribe Lasiopteridi Rübsaamen & Hedicke, 1925

tribe Dasineurini Rübsaamen & Hedicke, 1925

DASINEURA Rondani, 1840*Dasineura affinis* (Kieffer, 1886)*Dasineura alopecuri* (Reuter, 1895)*Dasineura angelicae* Rübsaamen, 1916*Dasineura cardaminis* (Winnertz, 1853)*Dasineura engstfeldi* (Rübsaamen, 1889)*Dasineura epilobii* (F. Löw, 1889)*Dasineura fraxinea* Kieffer, 1907*Dasineura fraxini* (Bremi, 1847)*Dasineura galiicola* (F. Löw, 1880)*Dasineura gentneri* Pritchard, 1953*Dasineura hygrophila* (Mik, 1883)*Dasineura hyperici* (Bremi, 1847)*Dasineura jaapi* Rübsaamen, 1914*Dasineura kiefferiana* (Rübsaamen, 1891)*Dasineura leguminicola* (Lintner, 1879)*Dasineura lotharingiae* (Kieffer, 1888)*Dasineura mali* (Kieffer, 1904)*Dasineura napi* (Loew, 1850)= *brassicae* (Winnertz, 1853)*Dasineura populeti* (Rübsaamen, 1889)*Dasineura pteridicola* (Kieffer, 1901)*Dasineura pteridis* (Muller, 1871)= *filicina* (Kieffer, 1889)*Dasineura pustulans* (Rübsaamen, 1889)*Dasineura pyri* (Bouché, 1847)*Dasineura ribis* Barnes, 1940*Dasineura rosae* (Bremi, 1847)= *Wachtliella rosarum* (Hardy, 1854)*Dasineura similis* (F. Löw, 1888)*Dasineura sisymbrii* (Schränk, 1803)*Dasineura tetensi* (Rübsaamen, 1892)*Dasineura thomasiana* (Kieffer, 1888)*Dasineura tiliae* (Schränk, 1803)= *tiliamvolvans* (Rübsaamen, 1889)*Dasineura trifolii* (F. Löw, 1874)*Dasineura ulmaria* (Bremi, 1847)*Dasineura urticae* (Perris, 1840)*Dasineura viciae* (Kieffer, 1888)

Dasineura violae (F. Löw, 1880)

GEOCRYPTA Kieffer, 1913

Geocrypta galii (Loew, 1850)

GEPHYRAULUS Rübsaamen, 1915

Gephyraululus raphanistri (Kieffer, 1886)

GIRAUDIELLA Rübsaamen, 1915

Giraudiella inclusa (Frauenfeld, 1862)

JAAPIELLA Rübsaamen, 1915

Jaapiella loticola (Rübsaamen, 1889)

Jaapiella veronicae (Vallot, 1827)

KALTENBACHIOLA Hedicke, 1938

Kaltenbachiola strobili (Winnertz, 1853)

MACROLABIS Kieffer, 1892

Macrolabis cirsii (Rübsaamen, 1890)

Macrolabis orobi (F. Löw, 1877)

RABDOPHAGA Westwood, 1847

Rabdophaga dubiosa Kieffer, 1913

Rabdophaga gemmicola (Kieffer, 1896)

Rabdophaga heterobia (Loew, 1850)

Rabdophaga iteobia (Kieffer, 1890)

Rabdophaga marginemtorquens (Bremi, 1847)

Rabdophaga nervorum (Kieffer, 1895)

Rabdophaga rosaria (Loew, 1850)

Rabdophaga salicis (Schrank, 1803)

Rabdophaga terminalis (Loew, 1850)

WACHTLIELLA Rübsaamen, 1915

Wachtliella caricis (Loew, 1850)

= *riparia* (Winnertz, 1853)

= *muricatae* (Meade, 1886)

Wachtliella persicariae (Linnaeus, 1767)

tribe Lasiopterini Rübsaamen & Hedicke, 1925

LASIOPTERA Meigen, 1818

Lasioptera populnea Wachtl, 1883

Lasioptera rubi (Schrank, 1803)

tribe Oligotrophini Rübsaamen & Hedicke, 1925

OLIGOTROPHUS Latreille, 1805

Oligotrophus juniperinus (Linnaeus, 1758)

Oligotrophus panteli Kieffer, 1898

tribe Poomyini Rübsaamen & Hedicke, 1925

MAYETIOLA Kieffer, 1896

Mayetiola avenae (Marchal, 1895)

Mayetiola destructor (Say, 1817)

Mayetiola joannisi Kieffer, 1896

tribe Rhopalomyiini Harris, 1966

RHOPALOMYIA Rübsaamen, 1892*Rhopalomyia chrysanthemi* (Ahlberg, 1939)*Rhopalomyia millefolii* (Loew, 1850)*Rhopalomyia ptarmicae* (Vallot, 1849)*Rhopalomyia tanaceticola* (Karsch, 1879)*Rhopalomyia tubifex* (Bouché, 1847)

unplaced Lasiopteridi

CYSTIPHORA Kieffer, 1892*Cystiphora sanguinea* (Bremi, 1847)= *hieracii* (F. Löw, 1874)= *pilosellae* Kieffer, 1892*Cystiphora sonchi* (Vallot, 1827)**ITEOMYIA** Kieffer, 1913*Iteomyia capreae* (Winnertz, 1853)**SEMUDOBIA** Kieffer, 1913*Semudobia betulae* (Winnertz, 1853)**Excluded species***Anarete lacteipennis* Kieffer, 1906. Misidentification.*Camptomyia antennata* Felt, 1920. Misidentification.*Camptomyia maxima* Mamaev, 1961. Presumptive misidentification; Finnish record cannot be verified.*Camptomyia piceae* Panelius, 1965. Presumptive misidentification; Finnish record cannot be verified.*Catarete brevinervis* (Zetterstedt, 1851). Misidentification.*Cecidomyia aurora* Mannerheim, 1823. Nomen dubium.*Epidosis flavescens* F. Löw, 1874. Nomen dubium.**Note**

***Anarete* sp. 2.** This species was described by Jaschhof and Jaschhof (2009) but not named. Identification of *Anarete* species is practically impossible using the keys and descriptions available in the literature.

Acknowledgements

The subfamilies Lestremiinae and Micromyinae were edited by M.J., Winnertzinae and Porricondylinae by M.J. and J.P., and Cecidomyiinae by M.S. The manuscript was read and commented on by Keith M. Harris, Ripley, UK, and by two reviewers unknown to us.

References

- Buhr H (1964) Bestimmungstabellen der Gallen (Zoo- und Phytocecidien) an Pflanzen Mittel- und Nordeuropas. Band I. VEB Gustav Fischer Verlag, Jena, xv + 761 pp.
- Buhr H (1965) Bestimmungstabellen der Gallen (Zoo- und Phytocecidien) an Pflanzen Mittel- und Nordeuropas. Band II. VEB Gustav Fischer Verlag, Jena, 763–1572. [25 pls. with unnumbered facing pages bearing figure legends]
- Gagné RJ, Jaschhof M (2014) A Catalog of the Cecidomyiidae (Diptera) of the World. 3rd Edition. Digital version 2. http://www.ars.usda.gov/SP2UserFiles/Place/12454900/Gagne_2014_World_Cecidomyiidae_Catalog_3rd_Edition.pdf
- Hackman W (1980) A check list of the Finnish Diptera. Notulae entomologicae 60: 17–48.
- Hulden L (2003) *Dasineura pustulans* (Rübs.) (Cecidomyiidae) discovered in Finland. Sahlbergia 8(2): 100.
- Jaschhof M, Jaschhof C (2009) The Wood Midges (Diptera: Cecidomyiidae: Lestremiinae) of Fennoscandia and Denmark. Studia dipterologica Supplement 18. Ampyx-Verlag, Halle (Saale), 333 pp.
- Jaschhof M, Jaschhof C (2013) The Porricondylinae (Diptera: Cecidomyiidae) of Sweden, with notes on extralimital species. Studia dipterologica Supplement 20. Ampyx-Verlag, Halle (Saale), 392 pp.
- Penttinen J, Jaschhof M (2009) On the systematics of *Sylvenomyia* Mamaev & Zaitzev (Diptera, Cecidomyiidae, “Porricondylinae”), with the description of a new species from Finland. Zootaxa 2032: 48–54.
- Penttinen J, Siitonen J (2005) Five species of log midges (Diptera, Cecidomyiidae: Porricondylinae) new to Finland. Sahlbergia 10(2): 50–53.
- Penttinen J, Spungis V (2007) Additions to the Finnish fauna of log midges (Diptera, Cecidomyiidae: Porricondylinae). Sahlbergia 12(1): 36–42.
- Skuhrová M (1997) Family Cecidomyiidae. In: Papp L, Darvas B (Eds) Contributions to a Manual of Palaearctic Diptera (with Special Reference to Flies of Economic Importance). Volume 2: Nematocera and Lower Brachycera. Science Herald, Budapest, 71–204.
- Skuhrová M (2006) Species richness of gall midges (Diptera: Cecidomyiidae) in the main biogeographical regions of the world. Acta Societatis Zoologicae Bohemicae 69: 327–372.